

Environmental Committee
June 19, 2017
6:30 p.m. – Police Training Room

- 1. Call to Order**
- 2. Public Comment**
- 3. Introduction**
- 4. Committee Items**
 - a. Environmental Mosquito Management Program**
 - b. SolSmart Program**
 - c. EAB – Final Treatment Plan**
- 5. New Business/Old Business**
- 6. Next Meeting**
- 7. Adjournment**

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison - Environmental Committee

DATE: June 14, 2017

RE: Introduction

With the recent departure of Paul Nosek, effective May 2, 2017, I will be the liaison for the Environmental Committee. I have been with the City of Darien since August 2015. Since this time, I have worked in an administrative capacity for Municipal Services, preparing correspondence, assisting residents with various issues, etc. Recently I was promoted to the position of Administrative Assistant to the City Administrator. Prior to my employment with the City of Darien, I was employed at the Chicago Transit Authority for 26 years.

I look forward to working with you. If you have any questions/comments, please do not hesitate to contact me at 630-353-8104 or lklemm@darienil.gov

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 14, 2017

RE: Environmental Mosquito Management (EMM) Program

The City Council approved a 3 year contract extension with Clarke Environmental Mosquito Management, Inc. on May 1, 2017. The outline of services to be provided by Clarke during this period are detailed in the attached and include the following: General Service, Surveillance and Monitoring, Larval Control and Adult Control. Further, upon completion of these services, the City of Darien receives notification via email from Clarke.

Clarke Mosquito will attend the meeting to provide a short presentation as well as answer any questions presented.



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**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for
The 2017 City of Darien EarthRight
Environmental Mosquito Management (EMM) Program**

Part I. General Service

- A. Aerial Survey and Geographic Information System (GIS) Mapping
- B. Computer System and Record Keeping Database
- C. Public Relations and Educational Brochures
- D. Mosquito Hotline Citizen Response – (800) 942-2555
- E. Comprehensive Insurance Coverage naming the City of Darien additionally insured
- F. Program Consulting and Quality Control Staff
- G. Monthly Operational Reports, Periodic Advisories, and Annual Report
- H. Regulatory compliance on local, state, and federal levels

Part II. Surveillance and Monitoring

- A. Floodwater Mosquito Migration Model:
The use of weather data and computer model to predict the arrival of *Aedes vexans* brood (hatch) and peak annoyance periods. (Clarke will contact the City of Darien representative and inform him/her of the impending brood arrival.
- B. Arbovirus Surveillance:
 - 1. Clarke New Jersey Light Trap Network to monitor and evaluate adult mosquito activity.
- C. Weather Monitoring – Operational Forecasts

Part III. Larval Control

- A. Targeted Mosquito Management System (TMMS™) computer database and site management.
- B. Larval Site Monitoring: 12 inspections
 - 1. Four (4) complete inspections of up to 76 sites as outlined by most recent Clarke GIS Survey.
 - 2. Five (5) targeted inspections of up to 38 breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 3. Three (3) targeted inspections of up to 33 known *Culex spp.* breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 4. Inspections of sites called in by residents on the Mosquito Hotline.
- C. Prescription Larval Control will be performed with Natular™ mosquito larvicide as described in the following sections.
 - 1. Larval Control: The program provides for up to 73 acres of single brood or 30 day residual product with backpack or hand equipment or with helicopter.
 - 2. Larval Control: The program provides for 3 backpack pre-hatch treatments of up to 1.0 acres using a 30 day residual product in the "Dale Basin" area.



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3. Larval Control: The program provides for treatment of 3 backpack pre-hatch treatments of up to 0.5 acres using a 30 day residual product in the "Chestnut Detention Basin" area near Lemont Road and 75th Street.
4. Helicopter Prehatch: Three (3) treatments using a 30 day residual product of up to 15.0 acres for floodwater mosquito control.
5. Larval Control: Stocking of 2,000 mosquito fish (*Gambusia affinis*) for biological control.
6. Catch Basins: Back Yard Catch Basins: One (1) treatment of up to 6 known backyard catch basins using Natular™ XRT extended residual slow release insecticide for control of up to 180 days. As new backyard catch basins are identified via citizen feedback and City referrals, treatments will be performed and the locations added to the master list for future residents.
7. Catch Basins: One treatment of up to 2,000 catch basins, inlets and manholes using Natular™ XRT extended residual slow release insecticide for up to 180 day control.
 - a. GPS DataMaster® technology will be used to record treated catch basin locations. Post-treatment application maps depicting the catch basin locations will be provided to the City as part of the monthly operational reports.

Part IV. Adult Control

- A. Adulticiding in mosquito harborage areas:
 1. Upon City authorization, backpack barrier treatments using a synthetic pyrethroid insecticide of festival and concession stand areas for residual control of adult mosquitoes.
- B. Adulticiding in Residential Areas:
 1. Upon City authorization, community-wide truck ULV treatments of up to 89.4 miles of streets using Merus™ a botanical insecticide. Any additional authorized community ULV treatments will be priced at \$8,800.00 per treatment.
- C. Adulticiding Operational Procedures
 1. Notification of community contact.
 2. Weather limit monitoring and compliance.
 3. Notification of residents on Clarke Call Notification List.
 4. ULV particle size evaluation.
 5. Insecticide dosage and quality control analysis.

2017 EarthRight Payment Total Price for Parts I, II, III, IV**

\$40,867.00

****NPDES Permit:** A National Pollutant Discharge Elimination System (NPDES) permit is necessary for the execution of the work for mosquito control effective October 31, 2011. Any additional costs associated with activities and/or services that may be required by Clarke in order to comply with an NPDES permit are not included in this proposal.



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**Clarke Environmental Mosquito Management, Inc.,
Client Agreement Authorization for
The 2017 City of Darien EarthRight
Environmental Mosquito Management (EMM) Program**

I. **Program Payment Plan:** For Parts I, II, III, and IV as specified in the 2017 Professional Services Price Outline, the total for the 2017 program is \$40,887.00. The payments will be due according to the payment schedule below. Any additional treatments beyond the core program will be invoiced when the treatment is completed. City of Darien has the option to extend this program for 2018 and 2019, holding 2017 pricing - or - to extend this program for 2018 only at rates not to exceed a (3%) annual increase.

PROGRAM PAYMENT PLAN (2017-2019)

Month	2017	2018	2019
May 1	\$10,221.75	\$10,221.75	\$10,221.75
June 1	\$10,221.75	\$10,221.75	\$10,221.75
July 1	\$10,221.75	\$10,221.75	\$10,221.75
August 1	\$10,221.75	\$10,221.75	\$10,221.75
TOTAL	\$40,887.00	\$40,887.00	\$40,887.00

PROGRAM PAYMENT PLAN (2017-2018)

Month	2017	2018
May 1	\$10,221.75	\$10,527.50
June 1	\$10,221.75	\$10,527.50
July 1	\$10,221.75	\$10,527.50
August 1	\$10,221.75	\$10,527.50
TOTAL	\$40,887.00	\$42,110.00

II. **Approved Contract Period and Agreement:**

Please check one of the following contract periods:

2017 thru 2019 Season

2017 thru 2018 Season

(New areas to be covered in 2018 - 2019 will be pro-rated to the program cost at the rates in effect at the time.)

For City of Darien:

Sign Name:

[Signature]

Title:

City Administrator

Date:

5/1/17

For Clarke Environmental Mosquito Management, Inc.:

Name:

[Signature]
Emily Glasberg

Title:

Key Accounts Manager

Date:

11/17/2016



Proposal

**Clarke Environmental Mosquito Management, Inc.,
Client Authorization for 2017
City of Darien
Environmental Mosquito Management (EMM) Program**

Administrative Information:

Invoices should be sent to:

Name: City of Darien
Address: 1702 Plainfield Road
City: Darien State: IL Zip 60561
Office Phone: ⁶³⁰852-5000 Fax: ⁶³⁰852-4709 P.O.# _____
E-mail: 1klemm@darienil.gov County: DuPage

****In an effort to be more sustainable, we ask that you provide us with an Email address that the invoices should be sent to.****

Treatment Address (if different from above):

County: DuPage

Address: _____
City: _____ State: _____ Zip _____

Contact Person for City of Darien:

Name: Lisa Klemm Title: Admin Asst to CA
Office Phone: ⁽⁶³⁰⁾353-8105 Fax: ⁽⁶³⁰⁾852-4709 E-Mail: 1klemm@darienil.gov
Home Phone: _____ Cell: ⁽⁶³⁰⁾915-8696 Pager: _____

Alternate Contact Person for City of Darien:

Name: Bryon Vana Title: City Admin.
Office Phone: ⁽⁶³⁰⁾353-8114 Fax: ⁽⁶³⁰⁾852-4709 E-Mail: bvana@darienil.gov
Home Phone: _____ Cell: ⁽⁶³⁰⁾514-1251 Pager: _____

Please sign and return a copy of the complete contract for our files to:

Clarke Environmental Mosquito Management, Inc., Attn: Emily Glasberg
675 Sidwell Court, St Charles, IL 60174 or email to eglasberg@clarke.com

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 14, 2017

RE: SolSmart Program

In April 2017, the Mayor accepted an invitation to enroll in the SolSmart Program. This program will assist the City of Darien in promoting renewable energy, thus making it more efficient for our residents and businesses to install solar energy systems.

Attached is a copy of the letter sent to the Solar Foundation and International City/County Management Association in Washington DC as well as some general information regarding SolSmart.



April 3, 2017

International City/County Management Association
777 North Capitol Street NE, Suite 500
Washington, DC 20002

The Solar Foundation
600 14th Street NW, Suite 400
Washington, DC 20005

RE: SolSmart Solar Statement for the City of Darien, Illinois

Dear Ms. Dodson and Mr. Haddix:

We appreciate the invitation from The Solar Foundation to enroll in the SolSmart program. Our community supports the use of solar energy. We envision SolSmart as a viable program to help us reach the goals of promoting renewable energy and making it more efficient for our residents and businesses to install solar energy systems. Please accept this letter of intent to enroll Darien in the SolSmart community designation program. By committing our time and effort with the input of the SolSmart technical resources and the Metropolitan Mayors Caucus, we believe we can achieve the following action items and qualify for Bronze level designation by SolSmart by January 2018.

- Obtain community and technical input on market needs and reasonable regulation
- Evaluate plans, codes, permit procedures and make improvements where needed
- Educate officials and staff on best practices for design, easements, and impacts
- Distribute information on available opportunities, resources, and financing
- In order to measure progress along the way, we will track key metrics related to solar energy deployment, such as the number and location of solar installations and their capacity.

Our hope is that with this designation, we can encourage more investment in solar energy. We look forward to working with your team. Please contact our Community Development Director for program coordination.

Sincerely,
Kathleen Moesle Weaver

Kathleen Moesle Weaver, Mayor

ABOUT SOLSMART

What is SolSmart?

SolSmart is a new national designation program designed to recognize communities that have taken key steps to address local barriers to solar energy and otherwise foster the growth of strong local solar markets. It is funded by the U.S. Department of Energy SunShot Initiative through the Solar Powering America by Recognizing Communities (SPARC) funding opportunity.

SolSmart primarily seeks to address solar “soft costs,” or business process or administrative costs that can increase the time and money it takes to install a solar energy system – costs which are then passed on to solar customers. SolSmart designation will provide high-profile, national recognition for communities that have made it cheaper and easier for home and business owners to invest in solar energy. In addition, achieving designation will send a signal to solar companies that a community is “open for solar business.” Such efforts can help attract new business, providing jobs and other economic development benefits.

Communities committed to pursuing SolSmart designation will be eligible for no-cost technical assistance from a team of national solar and local government experts. This technical assistance is designed to help communities meet the criteria for designation.

How can my community become involved?

Communities that are interested in pursuing SolSmart designation should complete the [online Intake Form](#). A hard copy of the form is available for download, as well. For complete information about program criteria, please see the question “What criteria must my community meet to receive SolSmart designation?”

We encourage all communities to begin the intake process by submitting an initial draft of the Intake Form as soon as there is interest in pursuing SolSmart designation. The SolSmart team does not expect the first submission to show a community achieving all criteria required for designation.

Though the Intake Form is sometimes referred to as an “application,” it is actually a dynamic benchmarking exercise that assesses a community’s current status in relation to soft cost areas. After taking additional actions, either independently or with the help of technical assistance, SolSmart will update the Intake Form to reflect a community’s achievements

What are solar "soft costs" and how do they relate to SolSmart?

Solar soft costs are the non-hardware, balance of system costs associated with solar energy systems. They are also referred to as “non-hardware costs” and include costs associated with:

- Planning and zoning
- Permitting, interconnection, and inspection
- Financing
- Customer acquisition
- Installation labor

Part of the aim of the SolSmart program is to reduce solar soft costs, which currently represent as much as 64% of the total installed residential system price. To learn more about the above categories and how they increase costs, please visit the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy’s website.

What are the levels of SolSmart designation?

SolSmart is a tiered program consisting of three levels of designation: Bronze, Silver, and Gold. The levels of designation correspond to the number and type of actions taken by a locality to reduce solar soft costs. To learn more about the actions a community must take to achieve each level of designation, consult “What criteria must my community meet to receive SolSmart designation?”

What criteria must my community meet to receive SolSmart designation?

SolSmart is focused on recognizing communities that have worked to improve the solar friendliness of their community and encourage solar market development. The first step for communities pursuing SolSmart designation is to establish a vision and concrete goals for the adoption of solar within the

community via a **formal letter of commitment and begin tracking key metrics, such as the number of systems and installed capacity**. Details on requirements for the letter of commitment can be found in the designation criteria document and the “Help” sections of the online application.

To be considered for all levels of designation, communities must meet the overall program pre-requisites and points requirements in the two **Foundational categories**: Permitting and Planning, Zoning and Development Regulations. These pre-requisites require communities to create and post a permit checklist online and conduct a review and develop a memo on existing barriers to solar in the zoning code.

Communities must then earn points by taking actions across **Special Focus categories** of their choice, which also encourage solar cost reductions. These categories include: Inspection, Construction Codes, Solar Rights, Utility Engagement, Community Engagement, and Market Development and Finance. Points reward actions taken to reduce soft costs and point values are related to the level of difficulty and effect the actions have on improving the local solar market. **Special Awards** are available for communities that have made significant achievement in any of these categories. Communities can submit ideas for additional qualifying actions, which are not listed under the existing designation criteria, to receive Innovation points. These innovative actions will be eligible for credit as determined by a panel of experts and can potentially be selected to be showcased on the SolSmart website.

To qualify for SolSmart Bronze designation, a community must meet the overall program pre-requisites addressed above. Communities must earn 20 points each in the Permitting and Planning, Zoning, and Development Regulations categories and achieve an additional 20 points across all remaining categories (for a total of 60 points).

To qualify for SolSmart Silver, a community must first achieve the requirements for SolSmart Bronze. The community then must meet additional pre-requisites in Planning, Zoning and Development Regulations and Inspection and earn 100 points total (i.e., 40 points beyond the Bronze level) across all categories.

To qualify for SolSmart Gold, a community must first achieve the requirements for SolSmart Silver. The community must then complete one additional pre-requisite in Permitting and achieve 200 points total across all categories.

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 14, 2017

RE: EAB – Final Treatment Plan

The third and final phase of treatment for the Emerald Ash Borer was approved at the City Council Meeting on April 3, 2017. The first treatment, Phase 1, began in 2013. In addition to treating our parkway trees, the City of Darien had also solicited pricing for residents' private trees requiring treatment (at their expense).

The attached identifies the process of treating the EAB and how successful the program has been for our parkway trees.

EAB – Treatment Program

The City Council had periodically discussed and reviewed the Emerald Ash Borer treatments since 2010. The first treatment was completed in 2013, followed by a second treatment in 2015. The overall program consists of 3 cycles, for a period of 6 years and the 2017 cycle will be the last one. Each cycle application consists of injecting a product called Treeage and is effective for up to two years.

Prior to the commencement of the 1st Cycle, the staff had inventoried and identified 2,613 Ash trees of which 706 trees have been removed. The inventory had been reduced to 1,907 Ash trees, or approximately 27% less. Of the remaining 1,907 trees, 20 had been on a “watch list”. This spring, so far 7 of the 20 trees from the ‘watch list’ have been identified for removal.

The process for the Treeage application is completed by drilling a required amount of small holes(s), pending the size of the tree, into the trunk. Once the holes are drilled, the insecticide, Treeage-Emamectin Benzoate, is injected with the recommended dosage, and plugs are used to seal the holes. The use of the product has been proven beneficial through research to date.

The 2013 Program utilized the City’s Arborist to purchase the Treeage product, supplies and equipment to treat the Ash Trees located within the City’s parkways. The 2nd treatment was outsourced to Tru Green and the third cycle was awarded to the lowest responsive vendor, Tru Green.

Prior to treatments, trees are evaluated for mortality. The Ash tree shall have a minimal healthy canopy coverage of 60% to be considered for treatment.

This program has been successful, reducing the number of trees that have been removed compared to other towns.

Lisa Klemm

Subject: FW: Emerald Ash Borer and Darien

From: Sylvia McIvor [<mailto:smcivor@energysystemsgroup.com>]
Sent: Monday, June 05, 2017 2:47 PM
To: Dan Gombac <dgombac@darienil.gov>
Cc: Bryon Vana <bvana@darienil.gov>; Kathy Weaver <kweaver@darienil.gov>
Subject: Emerald Ash Borer and Darien

Dan,

I have been meaning to send this email for several weeks. As a resident, I want to thank you and your team for approaching the EAB threat in a manner significantly different than most communities in northern Illinois. As of last year, experts say the emerald ash borer scourge wiped out 13 million trees by the time it moved downstate. Rather than remove all ash trees in Darien, as most of our neighbors did, you put together a plan to remove those that were too far gone, catalog those that remained and to continue to treat and monitor. The treatment programs were offered to residents as well.

I was not sure if the treatment program was effective. Last year, many of the treated trees still looked quite sickly. This year, I am amazed at the level of recovery of the trees in my neighborhood. In fact, I did a double take and actually looked for the tags on a few I was certain would have to be taken down this year.

All in all, you did right by the environment and the taxpayers. Thank you!

Sylvia McIvor
Sr. Business Development Manager



Energy Systems Group
T: 630-332-9287 | C: 312-961-9230 | F: 812-492-8394
2443 Warrenville Road, Suite 620 | Lisle, IL 60532

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